NC/QC/W-13/2018-19/AM-BC1 Date: 14-11-2018

**1.TEST REPORT ON BITUMINOUS MIXES :**

**(BITUMEN EXTRACTION TEST & GRADATION TEST)**

**Sub:** To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Improvements of Asphalting in Mallasandra Ward No 13 Shettyhalli Sub Division}

**Ref.:** Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Technical Manager, KRIDL.

**TEST RESULTS**

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.41 %**

2. **Gradation Test**

**TABLE 1.1**

| Sieve Size, mm | Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation) | Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2) |
|---|---|---|
| 19.0 | 100 | 100 |
| 13.2 | 95.85 | 90-100 |
| 9.5 | 83.15 | 70-88 |
| 4.75 | 69.25 | 53-71 |
| 2.36 | 51.45 | 42-58 |
| 1.18 | 45.30 | 34-48 |
| 0.600 | 32.90 | 26-38 |
| 0.300 | 21.75 | 18-28 |
| 0.150 | 17.65 | 12-20 |
| 0.075 | 7.10 | 4-10 |

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NC/QC/W-13/2018-19/AM-BS1 Date: 15-11-2018

**1.TEST REPORT ON BITUMINOUS MIXES :**
**(STABILITY OF BITUMINOUS MIX)**

**Sub**: To determine the stability of bituminous mix for BC mix sample.
{Project*: Improvements of Asphalting in Mallasandra Ward No 13 Shettyhalli Sub Division}
**Ref.:** Material testing/W-13/QC/18-19,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Technical Manager, KRIDL.

## TEST RESULTS

**Table 1: Properties of BC (Gr-2) Mix**

| Sl. No. | Test Property | *Test results obtained by Marshall method | Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications |
|---|---|---|---|
| 1 | Marshall Stability (75 blows) (At 60°C), kgs. | 1331 | 900 |
| | Marshall Flow at 60°C, mm. | 3.42 | 2.0 - 4.0 |



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NC/QC/W-13/2018-19/AM-BC2 Date: 15-11-2018

**1.TEST REPORT ON BITUMINOUS MIXES :**
**(BITUMEN EXTRACTION TEST & GRADATION TEST)**

**Sub**: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements of Asphalting in Mallasandra Ward No 13 Shettyhalli Sub Division}

**Ref.:** Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Technical Manager, KRIDL.

**TEST RESULTS**

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.44 %**

2. **Gradation Test**

**TABLE 1.1**

| Sieve Size, mm | Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation) | Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2) |
|---|---|---|
| 19.0 | 100 | 100 |
| 13.2 | 98.45 | 90-100 |
| 9.5 | 85.15 | 70-88 |
| 4.75 | 65.75 | 53-71 |
| 2.36 | 53.40 | 42-58 |
| 1.18 | 41.05 | 34-48 |
| 0.600 | 32.80 | 26-38 |
| 0.300 | 22.60 | 18-28 |
| 0.150 | 18.35 | 12-20 |
| 0.075 | 8.05 | 4-10 |

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NC/QC/W-13/2018-19/AM-BS2 Date: 16-11-2018

**1.TEST REPORT ON BITUMINOUS MIXES :**
**(STABILITY OF BITUMINOUS MIX)**

{Project*: Improvements of Asphalting in Mallasandra Ward No 13 Shettyhalli Sub Division}

**Ref.:** Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Technical Manager, KRIDL.

## TEST RESULTS

**Table 1: Properties of BC (Gr-2) Mix**

| Sl. No. | Test Property | *Test results obtained by Marshall method | Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications |
|---|---|---|---|
| 1 | Marshall Stability (75 blows) (At 60°C), kgs. | **1325** | 900 |
| 2 | Marshall Flow at 60°C, mm. | **3.49** | 2.0 - 4.0 |

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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NC/QC/W-13/2018-19/AM-BC3

Date: 16-11-2018

**1.TEST REPORT ON BITUMINOUS MIXES :**
**(BITUMEN EXTRACTION TEST & GRADATION TEST)**

**Sub**: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements of Asphalting in Mallasandra Ward No 13 Shettyhalli Sub Division}

**Ref.:** Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Technical Manager, KRIDL.

**TEST RESULTS**

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.45 %**

2. **Gradation Test**

**TABLE 1.1**

| Sieve Size, mm | Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation) | Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2) |
|---|---|---|
| 19.0 | 100 | 100 |
| 13.2 | 97.15 | 90-100 |
| 9.5 | 84.60 | 70-88 |
| 4.75 | 65.30 | 53-71 |
| 2.36 | 54.80 | 42-58 |
| 1.18 | 44.15 | 34-48 |
| 0.600 | 33.05 | 26-38 |
| 0.300 | 21.65 | 18-28 |
| 0.150 | 18.45 | 12-20 |
| 0.075 | 8.10 | 4-10 |

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NC/QC/W-13/2018-19/AM-BS3

Date: 17-11-2018

**1.TEST REPORT ON BITUMINOUS MIXES :**
**(STABILITY OF BITUMINOUS MIX)**

**Sub:** To determine the stability of bituminous mix for BC mix sample.
{Project*: Improvements of Asphalting in Mallasandra Ward No 13 Shettyhalli Sub Division}

**Ref.:** Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Technical Manager, KRIDL.

**TEST RESULTS**

**Table 1: Properties of BC (Gr-2) Mix**

| Sl. No. | Test Property | *Test results obtained by Marshall method | Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications |
|---|---|---|---|
| 1 | Marshall Stability (75 blows) (At 60°C), kgs. | 1360 | 900 |
| 2 | Marshall Flow at 60°C, mm. | 3.51 | 2.0 - 4.0 |



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NC/QC/W-13/2018-19/AM-BC4 Date: 17-11-2018

**1.TEST REPORT ON BITUMINOUS MIXES :**

**(BITUMEN EXTRACTION TEST & GRADATION TEST)**

**Sub:** To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Improvements of Asphalting in Mallasandra Ward No 13 Shettyhalli Sub Division}

**Ref.:** Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Technical Manager, KRIDL.

**TEST RESULTS**

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.41 %**

2. **Gradation Test**

**TABLE 1.1**

| Sieve Size, mm | Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation) | Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2) |
|---|---|---|
| 19.0 | 100 | 100 |
| 13.2 | 98.45 | 90-100 |
| 9.5 | 84.05 | 70-88 |
| 4.75 | 68.15 | 53-71 |
| 2.36 | 54.30 | 42-58 |
| 1.18 | 34.80 | 34-48 |
| 0.600 | 32.45 | 26-38 |
| 0.300 | 25.75 | 18-28 |
| 0.150 | 17.55 | 12-20 |
| 0.075 | 8.35 | 4-10 |

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NC/QC/W-13/2018-19/AM-BS4

Date: 19-11-2018

**1.TEST REPORT ON BITUMINOUS MIXES :**
**(STABILITY OF BITUMINOUS MIX)**

**Sub**: To determine the stability of bituminous mix for BC mix sample.
{Project*: Improvements of Asphalting in Mallasandra Ward No 13 Shettyhalli Sub Division}

**Ref.:** Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Technical Manager, KRIDL.

## TEST RESULTS

**Table 1: Properties of BC (Gr-2) Mix**

| Sl. No. | Test Property | *Test results obtained by Marshall method | Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications |
|---|---|---|---|
| 1 | Marshall Stability (75 blows) (At 60°C), kgs. | **1350** | 900 |
| 2 | Marshall Flow at 60°C, mm. | **3.42** | 2.0 - 4.0 |

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